





APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/281,430	03/30/1999	INDU PARIKH	121-160	7226
23548	7590 07/14/2003			
LEYDIG VO	IT & MAYER, LTD		EXAMINER	
700 THIRTEENTH ST. NW SUITE 300 WASHINGTON, DC 20005-3960			WARE, TODD	
			. ART UNIT	PAPER NUMBER
			1615	22
			DATE MAILED: 07/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/281,430	PARIKH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Todd D Ware	1615				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address						
P riod for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on <u>23 September 2002</u> .						
	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>26-57</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>26-57</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Art Unit: 1615

DETAILED ACTION

Receipt of request for extension of time (granted) and amendment filed 4-17-03 is acknowledged. Claims 27-30, 35, 45, 51, and 53 have been amended and new claims 54-57 have been added as requested. Claims 26-53 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4-17-03 has been entered.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 26-33 and 36-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hauer et al (5,342,625; hereafter '625) in view of Hamied et al (5,929,030; hereafter '030) or vice versa.
- 4. '625 teaches a non-aqueous, microemulsion pre-concentrate composition comprising a hydrophobic or water insoluble agent such as cyclosporin, 10 to 80% of a hydrophobic component (C 8, L 58- C 9, L39 and examples), 20 to 80% of a surfactant

Art Unit: 1615

phase (C 9, L 40- C 12, L 6 and examples) and a hydrophilic component, such as ethanol and/or 1,2 propylene glycol. '625 teaches that the particle size of the microemulsions obtainable from the pre-concentrate is about 150-2000 Å (15-200 nm) when added to water.

- 5. '030 teaches microemulsion formulations for water insoluble active substances such as taxol, 20-80% of a hydrophobic oil phase, 1-60% of a surfactant phase, and 15-75% of a hydrophilic phase.
- 6. Accordingly, it would have been obvious to one skilled in the art at the time of the invention to combine '625 and '030 with the motivation of enhancing the resorption/bioavailability of taxol and the expectation that microemulsions provide increased resorption/bioavailability over non-microemulsion formulations, as taught by '625. Furthermore, motivation is also provided in '030 which teaches that such compositions do not form solid microfine active agent after administration. Thus, the expectation is that such a formulation would not precipitate taxol after administration.
- Claims 26-33 and 36-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hauer et al (5,342,625; hereafter '625) in combination with Hamied et al (5,929,030; hereafter '030) and further in combination with Rathi et al (6,004,573; hereafter '573) or Hamied et al (5,929,030; hereafter '030) in combination with Hauer et al (5,342,625; hereafter '625) and further in combination with Rathi et al (6,004,573; hereafter '573).
- 8. '625 and '030 are relied upon for all that they teach as stated previously.

Art Unit: 1615

- 9. '573 is relied upon to further reinforcing the similar dissolution properties of cyclosporin and taxol, stating that they are both hydrophobic agents.
- 10. Accordingly, it would have been obvious to one skilled in the art at the time of the invention to combine '625 and '030 with the motivation of enhancing the resorption/bioavailability of taxol and the expectation that microemulsions provide increased resorption/bioavailability over non-microemulsion formulations, as taught by '625, for hydrophobic active agents. Furthermore, motivation is also provided in '030 which teaches that such compositions do not form solid microfine active agent after administration. Thus, the expectation is that such a formulation would not precipitate hydrophobic active agent such as taxol after administration.
- 11. Claims 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hauer et al (5,342,625; hereafter '625) in combination with Hamied et al (5,929,030; hereafter '030) and further in combination with Sime et al (WO 96/35415; hereafter '415).or Hamied et al (5,929,030; hereafter '030) in combination with Hauer et al (5,342,625; hereafter '625) and further in combination with Sime et al (WO 96/35415; hereafter '415).
- 12. '625 and '030 are relied upon for all that they teach as stated previously.
- 13. '415 is relied upon for teaching compositions comprising grapefruit extract and taxol to inhibit cytochrome P450 enzyme and decrease metabolism/increasing stability of the taxol.

Art Unit: 1615

- 14. Accordingly, it would have been obvious to one skilled in the art at the time of the invention to include grapefruit extract in a taxol microemulsion with the motivation of decreasing metabolism/increasing stability of the taxol.
- 15. Claims 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hauer et al (5,342,625; hereafter '625) in combination with Hamied et al (5,929,030; hereafter '030) in combination with Rathi et al (6,004,573; hereafter '573) and further in combination with Sime et al (WO 96/35415; hereafter '415) or Hamied et al (5,929,030; hereafter '030) in combination with Hauer et al (5,342,625; hereafter '625) in combination with Rathi et al (6,004,573; hereafter '573) and further in combination with Sime et al (WO 96/35415; hereafter '415).
- 16. '625, '030, and '573 are relied upon for all that they teach as stated previously.
- 17. '415 is relied upon for teaching compositions comprising grapefruit extract and taxol to inhibit cytochrome P450 enzyme and decrease metabolism/increasing stability of the taxol.
- 18. Accordingly, it would have been obvious to one skilled in the art at the time of the invention to include grapefruit extract in a taxol microemulsion with the motivation of decreasing metabolism/increasing stability of the taxol.

Response to Arguments

19. Applicant's arguments filed 4-17-03 have been fully considered but they are not persuasive. Applicant argues that a preconcentrate is not a microemulsion and that a

Art Unit: 1615

microemulsion is formed from a preconcentrate when the preconcentrate is mixed with an aqueous medium. Applicant further argues that the term "microemulsion preconcentrate" is intended to mean that the preconcentrate forms a microemulsion on mixing with an aqueous medium. This argument is not found persuasive. Regardless what the composition is called, the compositions have the same elements/ingredients. The phrase "preconcentrate" is an intended use for the formulation. Indeed, upon administration of composition of the prior art, the composition of the prior art becomes diluted in the medium to which is delivered. Accordingly, the composition acts as a preconcentrate. Also, amendment of certain claims to require ethanol in the formulation (i.e. those claims previously reciting "up to") is noted. However, Applicant has not provided evidence as to the criticality of ethanol vs. propylene glycol.

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd D Ware whose telephone number is (703) 305-1700. The examiner can normally be reached on M-F, 8:30 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on (703)308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and (703) 308-4556 for After Final communications.





Art Unit: 1615

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

tw July 13, 2003

> THURMAN K PAGE SUPERVISORY PATENT EXAMINER TECHNOLOGY SENTER 1500

Page 7